

# United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/812,913	03/31/2004	Yukinori Otsuka	023484-0164	5704	
22428	7590 05/26/2006		EXAMINER		
FOLEY AND LARDNER LLP			KING, BRADLEY T		
SUITE 500 3000 K STRE	ET NW		ART UNIT	PAPER NUMBER	
WASHINGTON, DC 20007			3683		
			DATE MAN ED OF COO	DATE MAILED, 05/06/0006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/812,913	OTSUKA, YUKINORI				
Office Action Summary	Examiner	Art Unit				
	Bradley T. King	3683				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with t	he correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period  - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICAT 136(a). In no event, however, may a reply will apply and will expire SIX (6) MONTHS e, cause the application to become ABAND	FION. be timely filed from the mailing date of this communication. FONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 28 h	March 2006					
,	s action is non-final.					
· <u>·</u>	<del>_</del>					
closed in accordance with the practice under I		•				
Disposition of Claims	•					
4) Claim(s) <u>1-7,9-21,23 and 25</u> is/are pending in	the application					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1,3,4,9-11,14,20,21 and 23</u> is/are rej	ected.					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	or election requirement.					
Application Papers		:				
9) The specification is objected to by the Examine	ar					
10) The drawing(s) filed on is/are: a) acc		he Examiner				
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correc		• •				
11) The oath or declaration is objected to by the Ex						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 11	9(a)-(d) or (f).				
a)⊠ All b)□ Some * c)□ None of:						
	1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority document						
3. Copies of the certified copies of the prio		eived in this National Stage				
application from the International Burea  * See the attached detailed Office action for a list	• • • • • • • • • • • • • • • • • • • •					
dee the attached detailed Office action for a list	of the certified copies not rec	eivea.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summ	nary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	_	ail Date nal Patent Application (PTO-152)				
<ul> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)</li> <li>Paper No(s)/Mail Date</li> </ul>	6) Other:	на г асти друшации (СТО-192)				

Application/Control Number: 10/812,913

Art Unit: 3683

#### **DETAILED ACTION**

## Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 3/28/2006 has been entered.

### Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 3-4, and 10 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement and the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention; and was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Note independent claim 1 requires two axially extending wall portions and a

Art Unit: 3683

middle portion. These features are specific to the embodiment of figures 1-5. The "continuous paths" feature of claim 3 is specific to the embodiment of figures 6-8 and the separate wall portions required by parent claim 1 would appear to prevent the paths from being continuous. The recited combination of features is not supported by the original disclosure nor is it described in a way which would enable one of ordinary skill in the art to make or use the claimed invention.

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 3-4, 9-10, 14, 20-21, 23 and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP 9-118215 in view of Tamaoki et al (US# 5458150).

JP 9-118215 discloses a valve unit including; a yoke of magnetic metal 25-26, the yoke including upper 25-26a and lower 25-26ba walls that are integrally connected by side walls; a slit in the upper wall of the yoke (spacing between 25-26a), the slit extending along a longitudinal axis of the yoke between axially opposed ends of the yoke, and solenoid coils 23 having terminal members 27-28 projected outward from the yoke through the slit, wherein the terminal members of every pair of the electromagnetic valves, which face each other with respect to the longitudinal axis of the yoke, are arranged close to one another and face one another. See figure 3. JP 9-118215 lacks

Art Unit: 3683

the disclosure of an integral middle portion connecting the wall portions of the lower wall. Tamaoki et al disclose a similar valve unit and further teach the desirability of integral construction. Note for instance the abstract, column 1, lines 37-41 and figure 4. It would have been obvious to one of ordinary skill in the art at the time the invention was made to connect the yokes of JP 9-118215 in an integral fashion as taught by Tamaoki et al decrease the size of the device, thereby facilitating vehicle installation and reducing manufacturing costs. Also note *In re Larson*, 340 F.2d 965, 968, 144 USPQ 347, 349 (CCPA 1965).

Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over JP 9-118215 and Tamaoki et al (US# 5458150) in view of WO 00/70628.

JP 9-118215 and Tamaoki et al disclose all the limitations of the instant claims with exception to the explicit disclosure of the terminal portions contacting the slit edges. WO 00/70628 disclose a similar valve yoke structure and further teach the utilization of a slit edge to hold and maintain terminal ends of coil members. It would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize the slit edge of JP 9-118215 and Tamaoki et al to hold the terminal ends as taught by WO 00/70628 to improve the retention and positioning of the electrical connectors, thereby increasing the durability of the device.

## Allowable Subject Matter

Claims 2, 5-7, 12-13, and 15-19 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

# Response to Arguments

Applicant's arguments have been considered but are moot in view of the new ground(s) of rejection.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bradley T. King whose telephone number is (571) 272-7117. The examiner can normally be reached on 11:00-7:30 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James McClellan can be reached on (571) 272-6786. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/812,913 Page 6

Art Unit: 3683

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

**BTK** 

BRADLEY KING
PATENT EXAMINER